AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1 (original): A method for treating pain in an individual which comprises administering an analgesic effective amount of an active agent to an individual in need of pain treatment, said active agent comprises contulakin-G which comprises the amino acid sequence Xaa₁-Ser-Glu-Glu-Gly-Gly-Ser-Asn-Ala-Thr-Lys-Lys-Xaa₂-Tyr-Ile-Leu (SEQ ID NO:1), where Xaa₁ is pyro-Glu, Xaa₂ is proline or hydroxyproline and Thr₁₀ is modified to contain an O-glycan.

Claim 2 (original): The method of claim 1, wherein said pain is acute pain.

Claim 3 (original): The method of claim 2, wherein said acute pain is post-trauma.

Claim 4 (original): The method of claim 1, wherein said pain is chronic pain.

Claim 5 (original): The method of claim 4, wherein said chronic pain results from cancer.

Claim 6 (original): The method of claim 4, wherein said chronic pain is neuropathic pain.

Claim 7 (original): The method of claim 4, wherein said chronic pain is inflammatory.

Claim 8 (original): The method of claim 1, wherein the active agent is administered using a delivery system selected from the group consisting of infusion, pump delivery, bioerodable polymer delivery, microencapsulated cell delivery, injection and macroencapsulated cell delivery.

Claim 9 (original): The method of claim 8, wherein administration is into the central nervous system.

Claim 10 (original): The method of claim 9, wherein the central nervous system is selected from the group consisting of the intrathecal space, the brain ventricles and the brain parenchyma.

Claim 11 (original): The method of claim 8, wherein the administration is selected from the group consisting of subcutaneous, intravenous, intra-arterial and intramuscular.

Claim 12 (original): The method of claim 1, wherein the glycan is $Gal(\beta 1 \rightarrow 3)GalNAc(\alpha 1 \rightarrow)$.

Claim 13 (original): The method of claim 1, wherein the glycan has the structure

$$\begin{bmatrix} R_7O & OR_8 & \\ R_6O & H & R_5 & 1 \\ & & & & \\ & & & \\ & & & & \\ & & &$$

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wherein R₁ is Thr; X is O; R₂ is OH, NH₂, NHSO₃Na, NHAc, O-sulphate, O-phosphate, or O-glycan; R₃ is H, SO₃, PO₃, acetyl, sialic acid or monosaccharide; R₄ is H, SO₃, PO₃, acetyl or monosaccharide; R₅ is OH, NH₂, NHSO₃Na, NHAc, O-sulphate, O-phosphate, O-monosaccharide or, O-acetyl; R₆ is H, SO₃, PO₃, acetyl or monosaccharide; R₇ is H, SO₃, PO₃, acetyl or monosaccharide; n is 0-4 and m is 1-4.

Claim 14 (currently amended): A method for treating pain in an individual which comprises administering an analgesic effective amount of an active agent to an individual in need of pain treatment, said active agent is selected from the group consisting of

- (b) a generic contulakin-G of (a) which is modified to contain an O-glycan, an S-glycan or an N-glycan;
- (c) a contulakin-G analog which comprises an N-terminal truncation of from 1 to 9 amino acids of the generic contulakin-G of (a);

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- (d) a contulakin-G analog of (c), wherein a Ser-O-glycan, Thr-O-glycan or Cys-S-glycan is substituted for the amino acid residue at the truncated N-terminus;
- (e) a contulakin-G analog, wherein a Ser-O-glycan, Thr-O-glycan or Cys-S-glycan is substituted for a residue at positions 1-9 of the generic contulakin-G of (a); and
- (f) a contulakin-G analog which comprises an N-terminal truncation of 10 amino acids of the generic contulakin-G of (a) which is further modified to contain a Lys-N-glycan at residue 11 of the generic contulakin-G.

Claim 15 (original): The method of claim 14, wherein said pain is acute pain.

Claim 16 (original): The method of claim 15, wherein said acute pain is post-trauma.

Claim 17 (original): The method of claim 14, wherein said pain is chronic pain.

Claim 18 (original: The method of claim 17, wherein said chronic pain results from cancer.

Claim 19 (original): The method of claim 17, wherein said chronic pain is neuropathic pain.

Claim 20 (original): The method of claim 17, wherein said chronic pain is inflammatory.

Claim 21 (original): The method of claim 14, wherein the active agent is administered using a delivery system selected from the group consisting of infusion, pump delivery, bioerodable polymer delivery, microencapsulated cell delivery, injection and macroencapsulated cell delivery.

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Claim 22 (original): The method of claim 21, wherein administration is into the central nervous system.

Claim 23 (original): The method of claim 22, wherein the central nervous system is selected from the group consisting of the intrathecal space, the brain ventricles and the brain parenchyma.

Claim 24 (original): The method of claim 21, wherein the administration is selected from the group consisting of subcutaneous, intravenous, intra-arterial and intramuscular.

Claim 25 (original): The method of claim 14, wherein the glycan is $Gal(\beta 1 \rightarrow 3)GalNAc(\alpha 1 \rightarrow)$.

Claim 26 (original): The method of claim 14, wherein the glycan has the structure

$$\begin{bmatrix} R_7O & OR_8 & \\ R_6O & H & R_5 & 1 \\ & & &$$

wherein R₁ is Thr, Ser, Cys, Asn or Lys; X is O when R₁ is Thr or Ser, or X is S when R₁ is Cys or X is N when R₁ is Asn or Lys; R₂ is OH, NH₂, NHSO₃Na, NHAc, O-sulphate, O-phosphate, or O-glycan; R₃ is H, SO₃, PO₃, acetyl, sialic acid or monosaccharide; R₄ is H, SO₃, PO₃, acetyl or monosaccharide; R₅ is OH, NH₂, NHSO₃Na, NHAc, O-sulphate, O-phosphate, O-phosph

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monosaccharide or, O-acetyl; R₆ is H, SO₃, PO₃, acetyl or monosaccharide; R₇ is H, SO₃, PO₃, acetyl or monosaccharide; R₈ is H, SO₃, PO₃, acetyl or monosaccharide; n is 0-4 and m is 1-4.